

KOTYAKHOV, F. I.

PA 43/49T91

USSR/Petroleum - Analysis
Oil Regions

Oct 48

"Chloride Contents in Petroleum Beds," F. I.
Kotyakhov, 2 1/3 pp

"Neft Khoz" No 10

Refers to a method to determine chlorides, based on titration of hydrous extracts from cores according to Winkler method. Detailed explanation of this method is made by Butorin. Used cores, extracted and dried at 107° C, in experiments based on this method. Gives three graphs of experimental results.

43/49T91

KOTYAKHOV, F.I.; GEYMAN, M.A., redaktor.

[Effect of water on the petroleum flow at the opening of oil sands]
Vliianie vody na pritek nefiti pri vskrytii plasta. Moskva, Gostop-
tekhizdat, 1949. 71 p. (MIRA 8:4)
(Oil well drilling)

KOTYAKHOV, F.I., professor, doktor tekhnicheskikh nauk.

Classification of oil-bearing sands according to specific surface characteristics. Trudy Akad.neft.prom. no.1:83-85 '54.
(Petroleum geology) (MIRA 9:2)

KOTYAKHOV, F.I., professor, doktor tekhnicheskikh nauk.

Some characteristics of the lift capacity of pressure wells located
in the border of the oil-bearing reservoir. Trudy Akad.neft.prom.
no.1:219-227 '54. (MIRA 8:2)
(oil wells)

124-57-1-770

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 101 (USSR)

AUTHOR: Kotyakhov, F.I.

TITLE: On the Filtration Process in a Porous Medium (O rezhimakh
fil'tratsii v poristoy srede)

PERIODICAL: Tr. Akad. neft. prom-sti, 1954, Nr 1, pp 278-290

ABSTRACT: In the monograph by F.I. Kotyakhov, B.F. Remnev, and N.P. Butorin, "Analiz kernovykh neftyanykh mestorozhdeniy" (Analysis of Oil Core Deposits) (Gostoptekhizdat, 1948), the following expression is proposed for the Reynolds parameter:

$$R = \frac{4 v_{\phi} \sqrt{k}}{\gamma m \sqrt{m}} \quad (8)$$

where k is the permeability coefficient, m is the porosity, and v_{ϕ} is the filtration velocity. From this expression of the Reynolds parameter R and from Poiseuille's law, the author obtains an expression for the coefficient of resistance, as follows:
(equation on next card)

Card 1/3

124-57-1-770

On the Filtration Process in a Porous Medium

$$\lambda = \frac{\Delta m \sqrt{k m} \Delta r}{L \sqrt{q}} \quad (15)$$

There follows a recomputation of the test data of Fancher, Lewis, and Barnes (Fizicheskiye ispytaniya porod neftyanykh i gazovykh plastov, INT, Nr 105, Aznefteizdat, 1934; from the original. Fancher, G.H., Lewis, J.A., and Barnes, K.B. Physical Tests and Properties of Oil and Gas Sands; Proc. World Petroleum Congress (London), Vol I, pp 322-333, 1933) for the construction of the curves $\lambda = f(R)$. Up to a value $R = 0.3$ a full agreement of Darcy's law with the test data is observed. A small amount of scatter is explained by the author as resulting from the difficulty of an accurate reading of Fancher's curve. The linear law of filtration ceases to exist, according to the author's data, when the Reynolds number R fluctuates through a narrow range of values. Starting from Eq. (8), the critical filtration velocity is found to be

$$v_{crit.} = \frac{0.3 \mu m \sqrt{m}}{4 q \sqrt{k}} = \frac{0.053 \mu m \sqrt{m}}{q \sqrt{k}} \quad (19)$$

Card 2/3

124-57-1-770

On the Filtration Process in a Porous Medium

If the empirical relationship $\lambda(R)$, given by the author for values of R from 0.3 to 0.5, is used, then the critical pressure at which Darcys law ceases to be valid is expressed by

$$\Delta P_{crit.} = \frac{0.053 \mu^2 m \sqrt{m} L}{k \sqrt{k} \varphi} \quad (23)$$

From his computation of several specific examples the author concludes that the linear filtration law is adequate for the calculation of the discharge of wells.

A. A. Sabaneyev

1. Petroleum--Production--Mathematical analysis 2. Petroleum--Filtration process--Mathematical analysis

Card 3/3

KOTYAKHOV, Fedor Ivanovich, professor; KUSAKOV, M.M., redaktor; KOVALEVA,
A.A., vedushchiy redaktor; POLOSINA, A.S., tekhnicheskii redaktor

[The physics of oil deposits] Osnovy fiziki neftiannogo plasta.
Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi
lit-ry, 1956. 363 p. (MLBA 9:8)
(Oil fields) (Petroleum geology)

KOTYAKHOV, F.I., professor.

Valuation and use of oil reserves in the formation. Neftianik 1
no.11:24-26 N '56. (MLRA 9:12)
(Oil fields--Valuation)

KOTYAKHOV, F.I., prof.

Determining certain physical parameters of rocks according to
specific electric resistance data. Trudy Akad. naft. prom. no.3:
162-202 '56. (MIRA 10:11)
(Rocks--Electrical properties)

KOTYAKHOV, P.I.

Approximate method of determining petroleum reserves in broken
sands. Neft.khoz.34 no.4:40-46 Ap '56. (MLRA 9:7)
(Petroleum engineering) (Oil fields--Valuation)

KOTYAKHOV, F.I.; MEL'NIKOVA, Yu.S.; TREBIN, G.F.; KAZAKOVA, A.V.

Determining water saturation and oil recovery factors of sands on
the basis of drill core analysis. Neft.khoz.34 no.6:28-34 Je '56.
(Oil well logging) (Petroleum engineering) (MIRA 9:9)

KOTYAKHOV, F.I.

Approximate method for evaluating natural and artificial fracturing
of formations. Neft.khoz. 35 no.3:30-36 Mr '57. (MIRA 10:4)
(Petroleum engineering) (Petroleum geology)

KOTYAKHOV, F.I.

Method of determining artificial and natural fractures in
cores. Nauch.-tekhn. sbor. po dob. nefti no.1:44-47 '58.
(Oil sands--Permeability) (MIRA 15:9)

KOTYAKHOV, F.I.

Using electrometric and radiometric data for determining physical parameters of oil-bearing rocks in order to estimate oil resources in pools. Geol.nefti 2 no.10:36-39 0 '58. (MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy neftyanoy institut,
(Petroleum engineering)

11(0)

SOV/93-58-9-9/17

AUTHOR: Kctyakhov, P.I.

TITLE: Some Comments on Our Proposed Approximation Method for the Determination of Oil Reserves in Fractured Reservoir Rocks (Nekotoryye zamechaniya k predlozhennomu nami priblizhennomu metodu opredeleniya zapasov nefti v treshchinovatykh porodakh)

PERIODICAL: Neftyanoye khozyaystvo, 1958, No 9, pp 53-55 (USSR)

ABSTRACT: The author states that he has found a mistake in his approximation method for the determination of oil reserves in fractured reservoir rocks. The inaccuracy lies in the assumption that the number of fractures per unit of filtration area equals 1. This assumption was supported by A.A. Trofimuk's [Ref. 2] data on depleted fractured oilfields. The author states that the number of fractures per unit of filtration area can now be more accurately determined by photographing the walls of the wells with the aid of special subsurface cameras which are currently produced in the Soviet Union and the United States [Ref. 3]. The approximation method was first published in "Neftyanoye khozyaystvo," 1956, No 4 and received wide application in the Soviet Union and abroad. There are 3 references, 2 of which are Soviet and 1 English.

Card 1/1

KOTYAKHOV, P.I.; MEL'NIKOVA, Yu.S.; SEREBRNNIKOV, S.A.

Method for calculating recovery factors in water flood
operations. Trudy VNII no.24:37-63 '59. (MIRA 13:5)
(Oil field flooding)

KOTYAKHOV, F.I.

Errors in the calculation of rocks fractures. Neft.khoz. 38
no.2:55-59 F '60. (MIRA 13:8)
(Oil sands--Permeability)

KOTYAKHOV, F.I.; MEL'NIKOVA, Yu.S.

Area of disturbance of linear flow in fissured rocks. Nauch.-
tekh. sbor. po dob. nefti no.15:10-16 '61. (MIRA 15:9)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.
(Oil reservoir engineering)

KOTYAKHOV, F.I.; SEREBRENNIKOV, S.A.; SHCHERBAKOVA, T.V.

Using deep photography of the walls of wells to determine the
physical parameters of fractured reservoirs. Neft. khoz. 39
no.5:40-45 My '61. (MIRA 14:9)
(Oil reservoir engineering)

KOTYAKHOV, F.I.; MEL'NIKOVA, Yu.S.

Determining the physical parameters of thinly interbedded
arenaceous-argillaceous rocks. Trudy VNII no.34:86-94 '62.
(Oil sands) (MIRA 15:7)

KOTYAKHOV, F.I.

Using liquid propane to displace oil from pools. Geol.
nefti i gaza 6 no.2:32-35 F '62. (MIRA 15:2)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.
(Oil fields--Production methods)
(Propane)

KOTYAKHOV, F.I.

Determination of fracturing based on pressure build-up curves.
Geol. нефти i gaza 6 no.6:28-31 Je '62. (MIRA 15:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy neftegazovyy institut.
(Faults (Geology))
(Rocks—Permeability)

KOTYAKHOV, F.I.

Estimating the degree of the tortuosity of interstitial channels in sedimentary rocks from their electric conductivity. Nauch.-tekhn. sbor. po dob. nefti no.21 58-61 '63. (LIRA 17:5)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

KOTYAKHOV, F.I.; SEREBRENNIKOV, S.A.

Estimating the distribution of fractures in oil and gas reservoir
rocks using deep photography. Geol. nefti i gaza 8 no.11:26-
30 N '64. (MIRA 17:12)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

KOTIANKOV, P. I.

Thermal drive in carbonate petroleum reservoir rocks. Neft.
khoz. 43 no. 3: 58-63 Mr 165. (MIRA 18:6)

KOTYAKHOV, F.I.; MEL'NIKOVA, Yu.S.; YURCHAK, V.P.

Permeability of lithologically uniform sandstones in bed D₁
of the Tuzmazy oil field. Neftaprom. delo no.6:7-9 '65.

(MIRA 18:10)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

SHIROKOV, A.P., kand.tekhn.nauk; KOSTAREV, A.P., inzh.; KOTYAKHOV, V.I.,
inzh.

Use of coal saws in Kuznetsk Basin mines. Bezop.truda v prom.
7 no.3:71-72 Mr '63. (MIRA 16:3)

1. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut (for
Shirokov). 2. Kombinat ugol'nykh predpriyatiy Kuznetskogo
kamennougol'nogo basseyna (for Kostarev). 3. Shakhta im.
Vakhrusheva, Kuzbass (for Kotyakhov).
(Kuznetsk Basin---Coal mining machinery)

KOTYAREVSKIY, I L.

KOTYAREVSKIY, I.L.

Preparation of compressed unsaturated gases by dehydrating
alcohols under pressure. Zhur.prikl.khim. 29 no.10:1605-1606
0 '56. (MIRA 10:10)

1.Laboratoriya organicheskogo sinteza Vostochno-Sibirskogo filiala
AN SSSR.

(Gases, Compressed)

SAMOYLOV, S.M.; KOTYAREVSKIY, I.L.; ANDRIYEVSKIY, V.N.

Study of the reaction of noncatalytic oxidation of ethane.
Zhur. prikl. khim. 36 no.5:1146-1149 My '63. (MIRA 16:8)

(Ethane) (Oxidation)

ACC NR: AR6024837

SOURCE CODE: UR/0169/66/000/004/C003/C004

AUTHOR: Bekzhanov, G. R.; Brodovoy, V. V.; Gol'dshmidt, V. I.; Zhivoderov, A. B.; Zlavdinov, L. Z.; Ivanov, O. D.; Klechin, I. N.; Kolmogorov, Yu. A.; Bachin, A. P.; Kotlyarov, V. M.; Kuz'min, Yu. I.; Kuminova, M. V.; Kunin, N. Ya.; Lyubetskiy, V. G.; Melent'yev, M. I.; Morozov, M. D.; Tret'yakov, V. G.; Tychkova, T. V.; Tsareg-adskiy, V. A.; Eydlin, R. A.

TITLE: A schematic geophysical map of Kazakhstan

SOURCE: Ref. zh. Geofizika, Abs. 4G17

REF SOURCE: Sb. Geol. rezul'taty prikl. geofiz. Geofiz. issled. stroyeniya zemn. kory. M., Nedra, 1965, 142-154

TOPIC TAGS: geologic survey, geologic prospecting, map

ABSTRACT: Regional geophysical surveys are conducted in Kazakhstan to divide the territory into tectonic regions, to study its plutonic structure, and to solve some problems of geophysical mapping. The results of these surveys will make it possible to establish structural belts and regions in which minerals are likely to be found. The basic material will be obtained from investigations of the magnetic and gravitational fields in combination with seismic studies. In the magnetic and gravitational fields, tectonic and plutonic seams are isolated which correspond to terraces in the

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UDC: 550.311(574)

ACC NR: AR6024837

Mohorovicic discontinuity. Methods of regional geophysics are used to study the plutonic structure of a folded base, the structure and thickness of sedimentary sheaths, and to indicate prospective petroleum bearing uplifts. (Translation of abstract)
M. Speranskiy

SUB CODE: 08

Card 2/2

KOTYARSKIY, A.M.
KRAVCHENKO, VLADIMIR S.; KOTYARSKIY, AM

①

"Research on the safety of electrical installations in mining"

report to be submitted for the third Int. Mining Congress, Salzburg Austria,
15-21 Sep 63

KOTYASH, G.I. (Minsk)

Organization of high-speed traffic on the White-Russian main
line. Zhel.dor.transp. 44 no.8:20-23 Ag '62. (MIRA 15:8)

1. Nachal'nik Belorusskoy dorogi.
(White Russia--Railroads--Traffic)

KOTYASH, G.I. (Minsk); TRUSHIN, A.M. (Minsk)

Applying the door-to-door principle in freight transportation.
Zhel. dor. transp. 45 no.5:22-24 My '63. (MIRA 16:10)

1. Nachal'nik Belorusskoy dorogi (for Kotyash). 2. Zamestitel'
nachal'nika gruzovoy sluzhby Belorusskoy dorogi (for Trushin).

FEDOROV, F.I.; KOTYASH, T.L.

Passage of light through a plate made from a transparent
uniaxial crystal. Opt. i spektr. 12 no.2:298-303 F '62.

(MIRA 15:2)

(Crystals—Optical properties)

KoTyAYeva, K. A.

2

0553
Kalinchenko, I. I., Nikitin, V. D., Strobberg, M. E.,
Kir'yanova, T. M., KoTyayeva, K. A.

TITLE: The Dissolution of Nickel in Nitric Acid

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol. 4, No. 11,
pp 2443-2448 (USSR)

ABSTRACT: The authors investigated the influence exerted by temperature, acid concentration and additions upon nickel dissolution and the composition of decomposition products of nitric acid. Experiments were made at 60, 80, and 100°C. Figures 1-3 and Table 1 indicate the dissolution rate of Ni in 0.42 n - 12 n solution of HNO_3 . Temperature rise accelerates the dissolution. At constant temperature and increasing acid concentration, the dissolution rate rises up to a certain acid concentration, and is then reduced again at higher acid concentrations due to passivation. For 60°C, the dissolution rate has a maximum at an acid concentration of 6.5 - 7 n, for 80°C it is found at 8.5 - 9 n, and for 100°C at concentrations of above 9.0 n. Passage of oxygen had no effect within the temperatures and concentrations ap-

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plied. Analysis of nitric acid on ammonium nitrate has shown that the quantity of the resultant H_2O_2 was almost independent of temperature and remained fairly constant within the concentration range 0.46 - 7 n of nitric acid. About 90% of the amount of ammonium nitrate expected from the equation $4Ni + 10HNO_3 = 4H_2NiO_2 + 2H_2O + 3H_2O_2 + 3H_2O$ was produced in this reaction.

Figures 4 and 5 show the effect of the added hydrogen peroxide, ferric nitrate and nickel nitrate as well as of nickel chloride on three compounds. Addition of H_2O_2 accelerates nickel dissolution by 2 - 2.5 times, while the formation of H_2O_2 salts is reduced to one-third at 40°C and to 16% approximately at 100°C. $Fe(NO_3)_3$ accelerates the dissolution of Ni only above 60°C, whereas $Ni(NO_3)_2$ diminishes the dissolution rate to one-half between 40 and 60°C. At higher temperatures the effect decreases. $H_2O_2 + Fe(NO_3)_3$ and $H_2O_2 + Ni(NO_3)_2$ increase the dissolution rate of Ni up to 60°C. At higher temperatures, rapid catalytic decomposition of H_2O_2 takes place so that only the after-mentioned effect of nitrates occurs. There are 3 figures, 2 tables, and 14 references.

Card 2/3

ASSOCIATION: Ural'skiy politekhnicheskii institut im. S. M. Kirova (Ural Polytechnical Institute imeni S. M. Kirov)

SUBMITTED: July 11, 1959

Card 3/3

KOTYK, A.

Effect of potassium ions on phosphorylation in *Saccharomyces cerevisiae* [with summary in English]. *Biokhimiia* 23 no.5:737-750 S-0 '58 (MIRA 11:11)

1. Laboratoriya obmena kletok i tkaney Chekhoslovatskoy AN, Praga.

(*SACCHAROMYCES CEREVISIAE*, metab.

phosphorylation, eff. of potassium (Rus))

(*POTASSIUM*, eff.

on *Saccharomyces cerevisiae* phosphorylation (Rus))

KOTYK, A.

Comparison of the effect of some ions on adenosinetriphosphatase from various sources. Coll Cz Chem 25 no.5:1377-1382 My '60.

1. Laboratory for Cellular Metabolism, Biological Institute, Czechoslovak Academy of Sciences, Prague.

+

KOTYK, A.

Symposium on membrane transport and metabolism. Folia microbiol
6 no.2:141-143 '61. (EEAI 10:5)

(METABOLISM) (MEMBRANES)

KOTYK, A.

Metabolism of the mutant *Saccharomyces cerevisiae* R 12 A. I. Metabolism of glucose. *Folia microbiol* 6 no.3:164-170 '61. (REAI 10:8)

1. Laboratory for Cellular Metabolism Institute of Biology,
Czechoslovak Academy of Sciences, Prague.
(GLUCOSE) (YEAST) (OXYGEN)

KOTYK, A.

Metabolism of the mutant *Saccharomyces cerevisiae* R 12 A. II.
Endogenous metabolism. *Folia microbiol* 6 no.3:171-174 '61.
(HEAI 10:8)

1. Laboratory for Cellular Metabolism, Institute of Biology,
Czechoslovak Academy of Sciences, Prague.
(YEAST) (OXYGEN)

KOTYK, A.

Uptake of 2,4-dinitrophenol by the yeast cell. Folia microbiol 7
no.2:109-114 '62.

1. Laboratory for Cellular Metabolism, Institute of Microbiology,
Czechoslovak Academy of Sciences, Prague 6.

(YEASTS metab) (NITROPHENOLS metab)

KOTYK, A.

Intracellular pH of Baker's yeast. Folia microbiol. 8 no.1:27-31 '63.

1. Laboratory for Cellular Metabolism, Institute of Microbiology,
Czechoslovak Academy of Sciences, Prague 6.

(YEASTS)

(HYDROGEN ION CONCENTRATION)

KOTYK, A.; KLEINZELLER, A.

Transport of D-xylose and sugar space in Baker's yeast. Folia
microbiol. 8 no.3:156-164 '63.

1. Laboratory for Cell Metabolism, Institute of Microbiology,
Czechoslovak Academy of Sciences, Prague 6.

(XYLOSE) (METABOLISM) (SACCHAROMYCES)
(CARBOHYDRATE METABOLISM)

KOTYK, A.

Properties of sugar carrier in baker's yeast. Fol. microbiol.
(Praha) 10 no.1:30-35 Ja '65

1. Laboratory of Cell Metabolism, Institute of Microbiology,
Czechoslovak Academy of Sciences, Prague 4.

KOTYK, J.

Concrete roads made with blast furnace slag. p.18.
(Silnice, Vol. 6, No. 2, Feb. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

HUTLA, Vlastimil, inz.; KOTYK, Josef, inz.

Possibility of the automatic control of a diaphragm evaporator
with freely hanging film. Automatizace 7 no. 6:154-157 Jø '64.

1. Higher School of Chemical Technology, Pardubice.

HUTLA, Vlastimil; KOTYK, Josef

Dynamic characteristics of falling film evaporators. Chem
prum 14 no.8:403-405 Ag '64.

1. Chair of Chemical Production Automation, Higher School of
Chemical Technology, Pardubice.

CHERNOKAL'TSEV, Yu.; SAPOZHNIKOV, D.; KOTYKH, A.

Advisability of compiling charts for radar use. Mor. flot 18 no.
6:3-4 Ja '58. (MIRA 11:7)

1. Glavsevmorput' Ministerstva morskogo flota. 2. Nachal'nik partii
radiolokatsionnogo obsledovaniya beregov (for Chernokal'tsev). 2.
Starshiye inzhenery partii radiolokatsionnogo obsledovaniya beregov
(for Sapozhnikov, Kotyukh).

(Nautical charts)
(Radar in navigation)

BIKBOVA, S.K.; GONCHAROVA, M.I.; ROSSINSKAYA, (.B.; KOTYLEV, O.A., kand.veterin.
nauk; KARIMOVA, Z.Kh., dotsent, nauchnyy konsul'tant

Studying leptospirosis in man and animals in Tataria during 1961.
Uch. zap. KVI 89:79-83 '62. (MIRA 18:8)

1. Kazanskiy veterinarnyy institut (for Kotylev).

KOTYLEV, O.A., kand. vet. nauk

Practices in the culture of leptospira in liquid blood media.

Uch. zap. KVI 89:85-87 '62.

(MIRA 13:8)

1. laborato'ya bakteriynykh infektsiy (zav. - doktor veterin. nauk
Kh.Kh.Abiullin) Kazanskogo veterinarnogo instituta.

S/122/60/000/004/014/014
.A151/A130

AUTHORS: Kotylko, V.S.; Lavrinenko, Ye.T.; - Engineers
TITLE: Ukrainian Conference on the Application of Plastics in Machine and
Instrument Industry

PERIODICAL: Vestnik mashinostroyeniya, no. 4, 1960, 84 - 85

TEXT: The Ukrainskaya konferentsiya po primeneniyu plastmass v mashino-
stroyenii i priboroskoyenii (All-Ukrainian Conference on the Application of Plas-
tics in Machine and Instrument Industry) was convened in Kiev at the end of 1959.
It was prepared by Gosudarstvennyy nauchno-tekhnicheskii Komitet Soveta Ministrov
USSR (Scientific-Technical State Committee of the Council of Ministers of the
UKrSSR) and Akademiya nauk USSR (Academy of Sciences of the UkrSSR) jointly with
Kiyevskoye oblastnoye pravleniye NTO Mashprom (Kiev Oblast' Board of NTO Mashprom),
Institut stroitel'noy mekhaniki (Construction Mechanics Institute), and Kiyevskiy
NII mestnoy i toplivnoy promyshlennosti Gosplana USSR (Kiev Scientific Research
Institute of Local and Fuel Industry Gosplan UkrSSR). 960 delegates from 261
plants, 91 research institutes, 26 designing and planning organizations and tech-
nological organizations, 24 higher education institutions and other organizations

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Ukrainian Conference ...

S/122/60/000/004/014/014
A161/A130

of the UkrSSR, RSFSR and other organizations were present. They included 674 engineers and 75 candidates and doctors of sciences. The exhibition organized for the conference included a bus from L'vovskiy avtobusnyy zavod (L'vov Bus Plant) with plexiglass body. The 66 reports and informations treated the physical and mechanical properties of plastics, the applications and processing. Considerable success was stated in the reports. Gor'kovskiy avtomobil'nyy zavod (Gor'kiy Automobile Plant) jointly with NIIPlastmass have tested polyamide needle bearings as replacement for metallic, and "polikaprolaktam" (polycaprolactam) worked without lubrication at loads not above 25-30 kg/cm², polyamide-68 and AK-7 (AK-7) withstood 50-60 kg/cm² in similar operation conditions. The wear resistance of polyamides is 6-8 times higher than that of bronze. About 100 such bearings were tested on the cardan shafts of the Gor'kiy Plant trucks and lubricated only once at assembling. No wear was visible after 40-50 thousand km, and after 90 thousand the condition was still good. But it is recommended to use common lubricants for operation under high load and velocity. Fillers such as graphite, talcum and sulfide are recommended to add to polyamides. The Rostsel'mash Plant has tested valves made from capron waste in A-54 (D-54) engine pump for 300h, without rubbing in, and with abrasive matter added to speed up wear. The applicability of capron without lubricants was obvious in tests of capron bearings on a reaper-shearer -

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Ukrainian Conference ...

S/122/60/000/004/014/014
A161/A130

they worked without any lubrication -, and the machine has 78 points that previously needed lubrication three times a day. Khar'kovskiy traktorny zavod (Khar'kov Tractor Plant) has started using ACT - T (AST-T) plastic for foundry equipment, die-casting molds, drawing and bending dies, and for repair of metal patterns. Toretskiy mashinostroitel'nyy zavod (Toretskiy Machine Plant) has designed and produced with the assistance of VNIITuglemash a pilot lot of mine cars with plexiglass bodies. The weight of the car is reduced to a half. The "Krasnyy metalist" Plant in Konotop replaced the bronze parts of irrigation pumps with acid-proof plastics. The machine plants of Kramatorsk are using plastics for bearings of heavy machine tools, rolling mills, and for other parts. The following general statements were made at the conference: insufficient quantity and quality of produced polymers; low productivity of existing equipment and low mechanization degree; lack of molding machines for plexiglass; processing equipment being made at the plants with primitive means; high costs of raw materials; insufficient information in literature. Economic regions with a highly developed machine and instrument industry have no special plants for producing standard plastic parts. The processing technology for polyamides, plexiglass and other materials is only little developed; plastic designs are being developed by trial and error, little research work is done. Data are nearly not existing on fatigue and impact resist-

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KOTYNSKI, S.

The qualifications of a construction foreman. p 49

PLAND

BUDOWNICTWO PRZEMYSLOWE. (Ministerstwo Budownictwa) Warszawa/ Vol. 6, no. 1,
Jan. 1957

Monthly List of East European Accessions (EEAI) LC. Vol. 8, no. 7, July 1959

Uncl.

KOTYNSKI, Stanislaw, dr

Ambassadors of Polish science and technology. Horyz techn 18
no.3:9 Mr '65.

1. Director, National Institute of Construction Engineering,
Leopoldville, Congo.

KOTYNSKI, Wiktor (Szczecin, ul. Bol. Smialego 20 m. 1)

A case of myositis ossificans progressiva. Polski tygod. lek. 12 no.40:
1538-1541 7 Oct 57.

1. Z Kliniki Pediatricznej Pomorskiej Akademii Medycznej W Szczecinie;
kierownik: prof. dr med. Boleslaw Gornicki i z Oddzialu Chirurgii
Dzieciacej; kierownik: doc. dr med. Edward Drescher.
(MYOSITIS OSSIFICANS, in inf. and child
progressive, etiol., clin. aspects & ther.)

KOTYREV, Ye.

AUTHOR: Kotyrev, Ye., Moscow

107-9-28/53

TITLE: A Simple Method of Voltage Boosting (Prostoy sposob povysheniya napryazheniya)

PERIODICAL: Radio, 1957, # 9, p 40 (USSR)

ABSTRACT: This method was tested by the author in the "KBH-49" TV-receiver, when the latter was adapted to the "31JK2B" kinescope. The voltage was increased by 50 volts for the feeding of the blocking-generators and the discharging tubes of the line scanning and the vertical sweep.
The article contains 1 figure.

AVAILABLE: Library of Congress

Card 1/1

L 2314-66 EWT(1)/EWA(h) JM
ACCESSION NR: AP5022426

UR/0109/65/010/009/1628/1634
621.373.018.424-187

AUTHOR: Kotlyrev, Ye. A.; Plias, L. Ye.

TITLE: Spectral characteristics of stable oscillations generated by oscillators with weak delayed feedback

SOURCE: Radiotekhnika i elektronika, v. 10, no. 9. 1965, 1628-1634

TOPIC TAGS: traveling wave tube, microwave delay, microwave oscillator

ABSTRACT: Experimental studies of a ²⁵microwave oscillator with delayed feedback are reported. The oscillator, exhibiting several hundred natural frequencies, included a TWT amplifier and a waveguide delay line. The frequency characteristics were varied by the use of a variety of TW tubes and by varying tube voltages. With a sufficiently high gain (7-8 db), an oscillation with a complex spectrum was generated. The spectrum consisted of the sum of a large number of oscillations at natural frequencies. The number of components reached several hundreds with each component representing a noise-modulated oscillation. With filters introduced into the feedback circuit, the spectrum of each component contracted; in the limiting case, when the filter band was

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ACCESSION NR: AP5022426

less than Δf , a single monochromatic oscillation was observed. Contraction of the spectrum changed the shape of the spectral envelope from one resembling the frequency response of an open-loop oscillator to one resembling phase-modulated oscillation. Even with a relatively small number of components (filter, 50 Mc, $\Delta f = 5-7$ Mc), a large number of stable spectral forms were observed. Orig. art. has: 7 figures, and 3 formulas. [PW]

ASSOCIATION: none

SUBMITTED: 03Jul64

ENCL: 00

SUB CODE: EC

NO REF SOV: 002

OTHER: 001

ATD PRESS: 4/04

Card 2/2 *nd*

KOTYRLO, N.V., inzh.

Replacement of flanges on pipelines with welded joints. Energetik
8 no. 10:14-15 0 '60. (MIRA 14:1)
(Pipelines) (Pipe flanges)

KOTYSH, N.T.; SVIRIDOKHIN, I.I., red.; CHAPAYEVA, R.I., tekhn. red.

[Law of wings; collected essays and articles on flight safety]
Zakon krylatykh; sbornik ocherkov i statei o bezopasnosti po-
letov. Moskva, Voenizdat, 1962. 111 p. (MIRA 15:6)
(Flight—Safety measures)

KOTYSH, Nikolay Timofeyevich; MEL'NIKOV, Nikolay Andreyevich; TONKOV,
A.A., red.; CHAPAYEVA, R.I., tekhn. red.

[Wait for us, stars] Zhдите nas, zvezdy. Moskva, Voen.izd-vo
M-va obor.SSSR, 1962. 142 p. (MIRA 15:5)
(Titov, German Stepanovich, 1935-)

KOTYSHEVA, M.M.

Using cotton as indicator in determining the wilting point
of plants [with summary in English]. Pochvovedenie no.1:
119-121 Ja '59. (MIRA 12:2)

1. Sredneaziatskiy nauchno-issledovatel'skiy gidrometeorolo-
gicheskiy institut.
(Plants--Water requirements) (Cotton--Water requirements)

KOTYSHEVA, M.M.

Establishing the time for taking samples for soil moisture
determining field water capacity. Pocherovdenie no.84106.
107 Ag 161. (MIRA 14:11)

1. Upravleniye gidrometeorologiy Uzbekskoy SSR.
(Soil moisture)

KOTYSHEVA, M.M.; SABININA, I.G.

Features of the agricultural hydrology of the soil in the main
cotton-growing areas of Uzbekistan. Sbor.rab. TGO no.1:102-120
'61. (MIRA 15:10)

(Uzbekistan--Soil moisture)

ZAKHAR'YEV, N.I.; YAKUSHENKO, Ye.S.; OBUKHOVA, Z.D.; KOTYSHEVA, N.G.

Composition and nutritive value of grasses of the Fergana
Range meadow steppes abounding in the barley *Hordeum bulbosum*.
Izv. AN Kir. SSR no. 6:97-111 '58. (MIRA 11:12)
(Fergana Range--Grasses)

ZAKHAR'YEV, N.I., prof.; KOVERGA, L.V.; KOTYSHEVA, N.G.; OBUKHOVA,
Z.D.; YAKUSHENKO, Ye.S.

[Feeds in the Kirghiz S.S.R.; their composition and nutritive value] Korma Kirgizskoi SSR " " sostav i pitatel'nost'. [By] N.I.Zakhar'ev i dr. Frunze Izd-vo AN Kirg.SSR. Vol.1.[Chemical composition and feed value of grasses in the mountain pastures and hayfields of Fergana, Alay, and Susamyr] Khimicheskii sostav i pitatel'nost' travy gornyykh pastbishch i senokosov Fergany, Alaia i Susamyr. 1964. 341 p. (MIRA 17:9)

KOTYUK, A.F.

VISHENCHUK, I.M.; KOTYUK, A.F.; SHEREMET'YEV, V.A.

Electronic phase-measuring instruments used in industrial
frequency circuits. Izv.tekh. no.2:58-59 Mr-Ap '58. (MIRA 11:3)
(Electronic instruments)

VISHENCHUK, I.M., inzh.; KOTYUK, A.F., inzh.; SHEREMET'YEV, V.A., inzh.

Device for measuring and oscillographing the runaway angle of
synchronous-machine rotors. Elek. sta. 29 no.7:43-45 J1 '58.

(MIRA 11:10)

(Electric machinery, Synchronous--Measurement)

KOTYUK, A.F.

Sensitivity and precision of ferrodynamic phasemeters. Izv. tekh.
20 no.1:43-49 Ja '59. (MIRA 11:12)
(Electric measurements)

KOTYUK, A.F.

Design fundamentals and error analysis of phase meters of
ferrodynamic systems. Avtom.kont.i izm.tekh. no.4:23-53 '60.
(Electric measurements) (MIRA 13:8)

KOTYUK, A.F. (Novosibirsk)

Refinement of a formula for determining the specific moment
of an electrodynamic phase meter. Elektrichestvo no.5:85
My '60.

(MIRA 13:9)

(Electric measurements)

S/169/61/000/012/028/089
D228/D305


AUTHORS: Micyuk, L. Ya., and Kotyuk, A. F.

TITLE: A method of analyzing certain schemes of
aeroelectrical prospecting

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1961,
37, abstract 12A358 (Geologiya i geofizika,
1960, no. 9, 100-105)

TEXT: A method is suggested for analysis of the direct prob-
lem by the aeroelectrical prospecting technique of induction,
this being based on the replacement of a specific ore body situ-
ated in a non-conducting homogeneous environment, by an equiva-
lent conducting circular circuit. Such a replacement, in the
author's opinion, provides the possibility of reducing the con-
sidered problem to a comparatively clear and simple investiga-
tion of a three-circuit electrical connection consisting of ex-
citing and receiving frames and the equivalent circuit. [Ab-
stracter's note: Complete translation.]

Card 1/1



KOTYUK, A. F.

Cand Tec Sci, Diss -- "Analysis of Aeroelectrical prospecting systems by the induction method". Novosibirsk, 1961. 12 pp, 20 cm (Acad Sci USSR. Siberian Dept of the Joint Sci Council on Phys-Math and Tec Sci), 220 copies, Not for sale (KL, No 9, 1961, p 182, No 24347).
[61-54891]

KOTYUK, Andrey Fedorovich; MIZYUK, L.Ya., kand. tekhn. nauk, otv.
red.; DUDNIK, R.L., red.; MAZUROVA, A.F., tekhn. red.;
VYALYKH, A.M., tekhn. red.

[Analysis of airborne electric prospecting charts by the
induction method] Analiz skhem aéroelektrorazvedki metodom
induktsii. Otv. red. L.IA.Miziuk. Novosibirsk, Izd-vo
Sibirskogo otd-niia AN SSSR, 1961. 113 p. (MIRA 15:3)
(Aeronautics in geology) (Electric prospecting)

MIZYUK, L.Ya.; KOTYUK, A.F.

Airborne electromagnetic prospecting methods. Geol. i geofiz.
no.6:83-93 '61. (MIRA 14:7)

1. Institut avtomatiki i elektrometrii, Novosibirsk.
(Electromagnetic prospecting)
(Aeronautics in geology)

KARANDEYEV, K.B.; KOTYUK, A.F.

"Energy relations in electric measuring instruments" by V.N.Mil'shtein.
Reviewed by K.B.Karandeev, A.F.Kotiuk. Izv.tekh. no.2:63-64 F '61.
(Electric instruments) (MIRA 14:2)
(Mil'shtein, V.N.)

KOTYUK, A.F.

Conference on automatic control and electric measurements. Izv.
tekhn. no.1:61-62 Ja '62. (MIRA 14:12)

(Automatic control)
(Electric instruments)

VISHENCHUK, Igor' Mikhaylovich; KOTYUK, Andrey Fedorovich; MIZYUK, Leonid Yakovlevich; LYUSTIGERG, V.F., red.; YEMZHN, V.V., tekhn. red.

[Electromechanical and electronic phase meters] Elektromekhanicheskie i elektronnye fazometry. Moskva, Gosenergoizdat, 1962. 206 p. (MIRA 15:7)
(Electric measurements) (Electronic measurements)

KOTYUK, A.F.; LEVCHENKO, D.G.; PAS'KO, E.V.; SHTAMBERGER, G.A.;
KARANDEYEV, K.B., otv. red.; VYALYKH, A.M., tekhn. red.

[Apparatus for aerial electric prospecting using the
infinitely long cable method]Apparatura dlia aeroelektro-
razvedki metodom beskonечно dlinnogo kabelia. Otv. red.
K.B.Karandeev. Novosibirsk, Izd-vo Sibirskogo ot-niia AN
SSSR, 1962. 78 p. (MIRA 15:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Karandeyev).
(Electric prospecting—Equipment and supplies)
(Aeronautics in geology)

S/115/63/000/004/011/011
E192/E382

AUTHOR: Kotvuk, A.P.

TITLE: Conference on automatic-control and electrical-measurement methods

PERIODICAL: Izmeritel'naya tekhnika, no. 4, 1963, 61 - 62

TEXT: The conference was held at Novosibirsk towards the end of 1962 and was organized by the Institut avtomatiki i elektrometrii (Institute of Automatics and Electrometry) of the Siberian branch of the AS USSR. 595 delegates from 48 different towns, representing 228 organizations, attended the conference. It was divided into six sections and 148 papers were read and discussed. Some of the papers and topics discussed are listed below.

M.A. Rozov (IAE) discussed instruments and their function in the process of recognition. N.A. Chekhonadskiy, L.Ya. Kazar'yan and I.I. Popov (Moscow) dealt with the role of measuring information systems in medical and biological investigations during cosmic flights. V.I. Rabinovich and M.P. Tsanenko (IAE) considered the information characteristics of measurement systems, while Ye.A. Budnitskaya and V.P. Karpenko (Kiev) gave a generalized

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Conference on

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E192/E382

analysis of the errors of four-arm bridge systems. F.B. Grinevich and V.P. Shul'ts (IAE) considered a new method of balancing AC bridges. I.D. Zolotarev (Krasnoyarsk) discussed the errors of pulsed phasemeters caused by resonance systems under transient conditions. L.D. Krasin (IAE) discussed the "use of the nuclear magnetic resonance method in measurement techniques". V.Ya. Sul'yan and N.N. Shtarev (Tomsk) discussed a single-channel electronic phasemeter for frequency range of 2 - 60 Mc/s and input signal of 0.1 - 10 V. M.S. Granovskiy and I.A. Nabiyeu (Sumgait) discussed the method of devising correcting codes and a new method of chain-ring coding. P.I. Dekhtyarenko (Kiev) gave a comparative analysis of the static accuracy of certain types of multi-resonant systems and an estimate of their stability. Yu.P. Drobyshev (IAE) considered the losses of information due to frequency distortions. P.P. Kemeshis (Kaunas) dealt with the theory of measurement devices for random processes. B.M. Pushnoy and V.I. Chistyakov (IAE) considered a certain class of electrical measuring devices from the point of view of information theory. V.I. Rabinovich and M.P. Tsapenko (IAE)

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Conference on

S/115/63/000/004/011/011
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discussed the quantity of information as the characteristic of measuring instruments. B.S. Sinitsyn (IAE) considered statistical measuring information systems. A large number of papers were concerned with digital measuring instruments. G.A. Ali-Zade (Sumgait) discussed new principles of analog-to-digital conversion. F.B. Grinevich (IAE) showed that the extremum control methods can be used to devise automatic digital bridges with reverse and pulse modulation. V.Yu. Konchalovskiy and R.R. Kharchenko (Moscow) described an automatic DC potentiometer with analog and digital output. B.I. Shvetskiy (L'vov) described an electronic digital voltmeter. M.I. Levin and S.D. Dodik (Moscow) discussed the problem of stability of semiconductor voltage stabilizers, with silicon reference sources. A.M. Sorin (Leningrad) discussed the application of radiotelemetry systems with miniature capsules for medical and physiological investigations. The final resolution of the conference emphasized the importance of the investigations in the field of information-measurement theory. The next conference, to take place in September, 1963, will be organized into sections dealing with various current problems.

Card 3/3

KOTYUK, A.F.

Two-frame ferrodynamic ratiometer as a null phase indicator.

Izm. tekhn. no. 7:35 J1 '63.

(MIRA 16:8)

(Electric meters)

KOTYUK, A.F.; SHEREMET'YEV, E.V.

Universal bridge unit for measuring p-n junctions of semiconductor devices at sonic frequencies. Izv.tekh. no.11:33-36 N '63.
(MIRA 16:12)

LEVCHENKO, D.G.; KOTYUK, A.F.

Induction pickup of given dimensions for measuring weak
audio-frequency magnetic fields. Izv. AN SSSR. Ser. geofiz.
no.2:247-253 F '64. (MIRA 17:3)

1. Institut avtomatiki i elektrometrii AN SSSR.

LEVCHENKO, D.G.; KOTYUK, A.F.

Induction type transducers of limited size for measuring weak
magnetic fields of audio frequency. Izv. AN SSSR. Ser. geofiz.
no.11:1684-1690 N '63. (MIRA 16:12)

1. Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR.

LEVCHENKO, D.G.; KOTYUK, A.F., kand. tekhn. nauk, otv. red.;
SHALINA, L.V., red.

[Two-frequency inductive electric prospecting apparatus]
Apparatura dvukhchastotnoi induktivnoi elektrorazvedki.
Novosibirsk, Red.-izdatel'skii otdel Sibirskogo otd-niia
AN SSSR, 1964. 92 p. (MIRA 18:3)

KOTYUK, A.P.

Conference on automatic control and electric measurements. Jan.
telh. no. 3:53-55 Mr 164 (MIRA 57:8)

36661-65 EWT(1)/EEG(t) Feb 1965

ACCESSION NR: AP5007400

5/0286/65/000/004/0051/0051

AUTHOR: Kotyuk, A. F.; Sheremet'yev, E. V.; Zagorskiy, Ya. T.

TITLE: Instrument for measuring magnetic fields by the induction method.
Class 21, No. 168386

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 51

TOPIC TAGS: magnetic field measurement, magnetic induction measurement

ABSTRACT: The proposed instrument consists of a parametric amplifier, a frequency amplifier, a mixer, a pumping generator, a filter, and a meter. To improve accuracy and economize on the power consumption of the pumping generator, a coil with a toroidal core serves as an inductance modulator. In the magnetic circuit of the coil, a vibrating armature is fastened to a movable diaphragm. The diaphragm is coupled by an air gap to a second diaphragm, which is excited by the pumping generator. (See Fig. 1 of Enclosure.) Orig. art. has: 1 figure. [DW]

ASSOCIATION: Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR
(Institute of Automation and Electrometry, Siberian Department, AN SSSR)

Card 1/1

L 56517-65

ACCESSION NR: AP5016746

UR/0286/65/000/010/0071/0071

AUTHORS: Kotlyuk, A. F.; Sharamet'yer, E. V.

TITLE: Device for measuring a magnetic field by an inductive method. Class 42, No. 171123

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 71

TOPIC TAGS: magnetic field measurement, tuning fork, oscillator

ABSTRACT: This Author Certificate presents a device for measuring a magnetic field by an inductive method with a two-channel amplifier. To separate the amplifier channels and the pumping oscillator, a tuning fork is used as the inductance modulator. One prong serves as the vibrating armature in the magnetic circuit of the modulated inductance. The other prong is coupled inductively by an energizing system to the pumping oscillator (see Fig. 1 on the Enclosure). Orig. art. has: 1 diagram.

ASSOCIATION: Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR
(Institute of Automation and Electrometry, Siberian Branch AN SSSR)

SUBMITTED: 29Jan63

ENCL: 01

SUB CODE: EN

NO REF SOV: 000

OTHER: 000

Card 1/2

L 56517-65

ACCESSION NR: AP5016746

ENCLOSURE 01

6

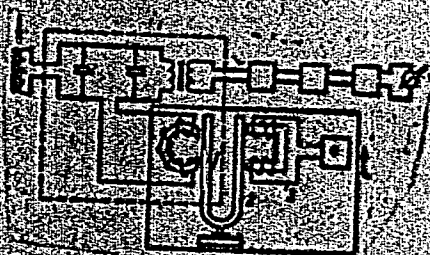


Fig. 1. 1 and 2- tuning fork prongs;
3- energizing system; 4- pumping oscillator

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KOTYUK, A.F.; SHEREMET'YEV, E.V.

Susceptibility threshold in the induction method for the
measurement of weak magnetic fields. Geol. i geofiz. no.6:
102-103 '63. (MIRA 19:1)

1. Institut avtomatiki i elektrometrii Sibirskogo otdeleniya
AN SSSR, Novosibirsk. Submitted February 2, 1963.

KOTYUKH, A., inzh.

Installation of passive radar reflectors. Mor.flot 17 no.9:13-14
S '57. (MIRA 10:12)

1. Gidrograficheskoye predpriyatiye Glavsevmorputi.
(Radar in navigation) (Coastwise navigation)

KOTYUKH, A., inzh., aspirant

Observation of echo signals from ice with the help of radar.
Mor. flot 23 no.5:17-19 '63. (MIRA 16:9)

1. Gidrograficheskoye predpriyatiye Glavnogo upravleniya Severnogo
morskogo puti i Zaochnoye otdeleniye Leningradskogo vysshego
inzhenerenogo morskogo uchilishcha im. admirala Makarova.
(Echo sounding) (Ice on rivers, lakes, etc.)

KOTYUKH, A., inzh.

Installing passive radar reflectors along lake and river
waterways. Rech. transp. 24 no.7:44 '65.

(MIRA 18:8)

KOTYUKH, A.

Sources of false echo signals. Mor.flot 25 no.6:
17-19 J1 '65. (MIRA 19:1)

1. Starshiy inzhener Gidrograficheskogo predpriyatiya.

KOTYUKH, A.A.

At the northernmost islands of our homeland. Geog. v shkole 23
no.4:4-12 J1-Ag '60. (MIRA 13:10)
(Frank Josef Land--Geography)